	Application No.	Applicant(s)	
	40/702 020	YOKOKAWA ET AL.	
Notice of Allowability	10/782,838 Examiner	Art Unit	/pw
·			
	Chuong A. Luu	2818	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not included unication will be mailed in due course	
1. This communication is responsive to 1/11/2006.			
2. The allowed claim(s) is/are <u>1-8</u> .			
 Acknowledgment is made of a claim for foreign priority un a)	der 35 U.S.C. § 119(a)-(d)	or (f).	
 Certified copies of the priority documents have 	been received.		
Certified copies of the priority documents have	been received in Application	on No	
Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application fro	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requireme	ents
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	•	,	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. Note the OLOGICAL MATERIAL.	9
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Ir	nformal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No.	/Mail Date ´ : Amendment/Comment	
Paper No./Mail Date	, <u> </u>		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		Statement of Reasons for Allowance	
	9.	<u> -</u>	

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DETAILED ACTION

Allowable Subject Matter

Claims 1-8 are allowed.

The following is an examiner's statement of reasons for allowance: The examiner has reviewed the prior art in light of applicant's claimed invention and finds that the combined claims define over the prior art. The cited prior art does not disclose or suggest a semiconductor device inter alia the limitations "...implanting at least one kind of ion of hydrogen ion and a rare gas ion into the surface portion of a bond wafer to form an ion-implanted layer, bonding the bond wafer and a base wafer each other through an oxide film, and delaminating the resultant bonded wafer at the ion-implanted layer, wherein assuming that X [nm] represents the thickness of the buried oxide film and Y [nm] represents the thickness of the SOI layer in the SOI wafer immediately after delaminating at the ion-implanted layer, when the thickness X of the buried oxide film is X≤100, in forming the ion-implanted layer, the ion implantation is carried out with the ion implantation conditions being such that the sum X+Y of the thickness of the buried oxide film and the thickness of the SOI layer satisfies X+Y>1500-14X, after which the bonding process and the delaminating process are carried out and, thereafter, a thinning treatment of the SOI layer is carried out to make the SOI layer into a thin film having a predetermined thickness...".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong A. Luu whose telephone number is (571) 272-1902. The examiner can normally be reached on M-F (6:15-2:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuong Anh Luu Patent Examiner February 21, 2006